



## **Certificate of Analysis**

SP/10/0303 **IAC Searsport** 

Vessel / Shore Tank: TANK 1 Product: #6 Fuel Oil Client Reference: V-10-00281

Analysis Performed By: IAC Portland Date Sampled: 05-Mar-2010 Date Reported: 07-Mar-2010

Sample Submitted By:

Terminal / Port / Office: Job ID:

SPRAGUE SEARSPORT 0020-0002535 Submission ID:

2010-020-00202

Sample Details:

AFTER PENN 120

Comments:

	Sample Number	2010-020-00202-004	
Method	Test	Result	Specification
ASTM D287	API Gravity, ° API-U,M,L Calc Avg	14.3	10.0 Min
ASTM D1250	Density at 15°C	0.9699	
ASTM D4294	Sulfur Content, mass %-U,M,L Calc Avg	0.408	0.50 Max
ASTM D445	Test Temperature	50°C (122°F)	
	Kinematic Viscosity, cSt-U,M,L Calc Avg	206.6	
ASTM D2161	Test Temperature, ° F	122	
	Saybolt Furol Seconds, sec	97.9	75-300 (ssf)
ASTM D95	Water, % (v/v)	0.00	1.0 Max
ASTM D473	Sediment Content, mass % / vol %	0.06 / 0.03	0.1 Max
ASTM D1796	Water and Sediment, % (v/v)	0.100	1.0 MAx
ASTM D93 Proc. B	Manual / Automated	Automatic	
	Flash Point, ° C / ° F	129.0 / 264	150 Min (F)
ASTM D482	Ash Content, mass %	0.0748	0.1 Max
IP 470	Aluminum, ppm (mg/kg)	150	
	Silicon, ppm (mg/kg)	139	
	Sodium, ppm (mg/kg)	18	60 Max
	Vanadium, ppm (mg/kg)	6	300 Max
ASTM D5762	Nitrogen, % wt	0.2489	
ASTM D240	Gross Heat of Combustion, BTU/lb	18662	
	Unit Conversion, BTU/gal	150826	
ASTM D4530	Carbon Residue, % (m/m)	7.18	21 Max
ASTM D97	Pour Point, ° C / ° F	18 / 64	60 Max (F)
ASTM D6560	Asphaltenes, % (m/m)	1.1	14 Max
ASTM D287	API Gravity, ° API		
	Upper	14.3	
	Middle	14.3	
	Lower	14.2	
ASTM D4294	Sulfur Content, mass %		
	Upper	0.411	
	Middle	0.407	
	Lower	0.406	
ASTM D445	Kinematic Viscosity, cSt		
	Upper	218.1	
	Middle	189.1	
	Lower	212.5	

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED FOR HIDSPECTORATE: Signature On File

Rick Kennedy,

CERTIFICATE, THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE, SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF

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THAT MAY ARISE FROM CUSTOM 53 RISE OF ROAD, ISOUTH POHIBERD, MAINE 02106 Ph: 207-767-1711 Fax: 207-767-5309